



CROSS-LISTED COURSE OUTLINE

COURSE IMPLEMENTATION DATE: May 2005
 COURSE REVISED IMPLEMENTATION DATE: January 2013
 COURSE TO BE REVIEWED: September 2018
(six years after UEC approval) (month, year)

CROSS-LISTED COURSE OUTLINE INFORMATION

This is a cross-listed course. Only one official course outline exists for this course, listed under the original course name and number. Please refer to the official course outline for full course information.
Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

<u>MATH 370</u>	<u>SCIENCE/MATHEMATICS & STATISTICS</u>	<u>3</u>
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Probability and Stochastic Processes		
COURSE DESCRIPTIVE TITLE		

OFFICIAL COURSE OUTLINE:

This is a cross-listed course. Please refer to **STAT 370** for the official course outline.

CALENDAR DESCRIPTION:

This course covers the theory of probability and stochastic processes for science and mathematics students who have experience with third semester calculus. Topics include probability space, conditional probability and independence, continuous and discrete random variables, jointly distributed random variables, expectation, conditional expectation and properties, limit theorems, Markov chains and Poisson processes, and simulation.

Note: This course is offered as STAT 370 and MATH 370. Students may only take one of these for credit.

PREREQUISITES: MATH 211
 COREQUISITES:
 PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: _____
- (b) Cross-listed with: STAT 370
- (c) Cannot take: STAT 370 for further credit.

SERVICE COURSE TO (department/program):

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only) Yes No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department) Yes No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: Yes No

Course designer(s): <u>Ali Fotouhi</u>	Date approved: <u>March 5, 2012</u>
Department Head: <u>Greg Schlitt</u>	Date of meeting: <u>March 30, 2012</u>
Supporting area consultation (Pre-UEC)	Date approved: <u>April 20, 2012</u>
Curriculum Committee chair: <u>Norm Taylor</u>	Date approved: <u>May 4, 2012</u>
Dean/Associate VP: <u>Ora Steyn</u>	Date of meeting: <u>May 23, 2012</u>
Undergraduate Education Committee (UEC) approval	